U.S. Department of Energy Energy Information Administration Form EIA-767 (2004)	*STEAM-ELECTRIC PLANT OPERATION AND DESIGN REPORT*	Form Approved OMB No. 1905-0129 Approval Expires

NOTICE: The timely submission of Form EIA-767 by those required to report is mandatory under Section 13(b) of the Federal Energy Administration Act of 1974 (FEAA) (Public Law 93-275), as amended. Failure to respond may result in a penalty of not more than $2,750 per day for each civil violation, or a fine of not more than $5,000 per day for each criminal violation. The government may bring a civil action to prohibit reporting violations, which may result in a temporary restraining order or a preliminary or permanent injunction without bond. In such civil action, the court may also issue mandatory injunctions commanding any person to comply with these reporting requirements. A person is not required to respond to collection of information unless the form displays a valid OMB number **Data reported on Schedule 6, Part B and Schedule 9 relating to Latitude and Longitude will be kept confidential. All other data are not confidential. Title 18 U.S.C. 1001 makes it a criminal offense for any person knowingly and willingly to make to any Agency or Department of the United States any false, fictitious, or fraudulent statements as to any matter within its jurisdiction.**

RESPONSE DUE DATE: April 30

REPORT FOR< respondent name >, <respondent id>, <plant name>, <plant code>

REPORTING PERIOD ENDING: 20xx

SURVEY CONTACTS: Persons to contact with questions about this form.

Contact

First Name: Last Name: Title:

Telephone: ( ) Ext: FAX ( ) E-mail:

Supervisor

First Name: Last Name: Title:

Telephone: ( ) Ext: FAX ( ) E-mail:

SCHEDULE 1. IDENTIFICATION

LINE NO.			
1	**Company Name (full legal name of operator)**		
2	**Current Address of Principal Business Office**		
3	**Plant Name**		
4	**Plant Code**		
5	**Plant Status (check one)**	**[ ] Existing [ ] Planned [ ] Retired**	**EIA Use Only Correct Frame [ ]**
6	**Plant Type (check one)**	**[ ] Organic 100 MW or More [ ] Organic 10 MW or Greater to Under 100 MW**	
PLANT LOCATION			
7	**State (U.S. Postal Abbreviation)**		
8	**County (or Parish)**		
9	**Nearest Post Office Name**		
10	**Nearest Post Office Zip Code**		

CHECK IF PRE-PRINTED DATA ARE CORRECT [ ]

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SCHEDULE 2. PLANT CONFIGURATION
(ORGANIC PLANTS 10 MW OR GREATER TO UNDER 100 MW COMPLETE ONLY LINES 1, 2, 3, AND IF APPLICABLE 5 AND 6)

LINE NO.	EQUIPMENT TYPE	EQUIPMENT IDENTIFICATION (a)	EQUIPMENT IDENTIFICATION (b)	EQUIPMENT IDENTIFICATION (c)	EQUIPMENT IDENTIFICATION (d)	EQUIPMENT IDENTIFICATION (e)
1	Boiler					
2	Associated Generator(s)					
3	Generator Associations with Boiler as Actual or Theoretical (indicate "A" for actual association or "T" for theoretical association)					
4	Associated Cooling System(s)					
5	Associated Flue Gas Particulate Collector(s) (include flue gas desulfurization units that also remove particulate matter)					
6	Associated Flue Gas Desulfurization Unit(s) (include flue gas particulate collectors that also remove sulfur dioxide)					
7	Associated Stack(s)					
8	Associated Flue(s)					

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SCHEDULE 3. PLANT INFORMATION, PART A. ANNUAL BYPRODUCT DISPOSITION AND USEFUL THERMAL OUTPUT
(IF ACTUAL DATA ARE NOT AVAILABLE, PROVIDE AN ESTIMATED VALUE)

LINE NO.	BYPRODUCT	COMPANY LANDFILL (DRY) (a)	COMPANY DISPOSAL PONDS (WET) (b)	ONSITE USE AND STORAGE (c)	SOLD (d)	OFF SITE DISPOSAL (e)	TOTAL (f)
QUANTITY OF COMBUSTION BYPRODUCTS DURING YEAR BY TYPE OF DISPOSAL (TO NEAREST 0.1 THOUSAND TONS)							
1	Fly Ash (zero percent moisture)						
2	Bottom Ash (zero percent moisture)						
3	Flue Gas Desulfurization (FGD) Sludge Including Stabilizers if Added (zero percent moisture)						
4	Gypsum (salable)						
5	Other Byproducts (specify other byproducts in footnote on Schedule 10)						
6	Facilities Producing Electricity and Useful Thermal Output from Equipment Associated with the Production of Electricity (Cogenerators) Check Appropriate Box: Bottoming Cycle System [ ] Topping Cycle System [ ] Not Applicable [ ]						
7	Enter the Estimated Useful Thermal Output for the Reporting Year (in million Btu) for Facilities Producing Electricity and Useful Thermal Output from Equipment Associated with the Production of Electricity						
8	How was the Useful Thermal Output Used? (check all that apply) [ ] Direct Heating [ ] Space Heating and/or Cooling [ ] Process Steam [ ] Delivered to Other End User(s) [ ] Other, Specify:						
	CHECK IF PRE-PRINTED DATA ARE CORRECT					[ ]	

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SCHEDULE 3. PLANT INFORMATION, PART B. FINANCIAL INFORMATION
(IF ACTUAL DATA ARE NOT AVAILABLE, PROVIDE AN ESTIMATED VALUE)

LINE NO.	TYPE	COLLECTION (a)	DISPOSAL (b)	OTHER (c)	
OPERATION AND MAINTENANCE (O&M) EXPENDITURES DURING YEAR (THOUSAND DOLLARS)					
1	Fly Ash				
2	Bottom Ash				
3	Flue Gas Desulfurization				
4	Water Pollution Abatement				
5	Other Pollution Abatement (specify in footnote on Schedule 10)				
6	Total (sum of lines 1, 2, 3, 4, 5)				

LINE NO.	TYPE	AMOUNT (a)
CAPITAL EXPENDITURES FOR NEW STRUCTURES AND EQUIPMENT DURING YEAR, EXCLUDING LAND AND INTEREST EXPENSE (THOUSAND DOLLARS)		
7	Air Pollution Abatement	
8	Water Pollution Abatement	
9	Solid/Contained Waste	
10	Other Pollution Abatement	
BYPRODUCT SALES REVENUE DURING YEAR (THOUSAND DOLLARS)		
11	Fly Ash	
12	Bottom Ash	
13	Fly and Bottom Ash Sold Intermingled	
14	Flue Gas Desulfurization Byproducts	
15	Other Byproduct Revenue (specify in a footnote on Schedule 10)	
16	Total (sum of lines 11, 12, 13, 14, 15)	

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SCHEDULE 4. BOILER INFORMATION, PART A. FUEL CONSUMPTION AND QUALITY (COMPLETE A SEPARATE PAGE FOR EACH BOILER)

1	Boiler ID (as reported on Schedule 2)		Boiler Status (use code)		Hours Under Load During Year (nearest hour)	

MONTHLY FUEL CONSUMPTION AND QUALITY DURING YEAR

LINE NO.	MONTH	FUEL CODE (a)	*QUANTITY* (b)	*HEAT CONTENT* (c)	SULFUR CONTENT (d)	ASH CONTENT (e)	MONTH	FUEL CODE (f)	*QUANTITY* (g)	*HEAT CONTENT* (h)	SULFUR CONTENT (i)	ASH CONTENT (j)
2	Jan						Jul					
3												
4												
5												
6	Feb						Aug					
7												
8												
9												
10	Mar						Sep					
11												
12												
13												
14	Apr						Oct					
15												
16												
17												
18	May						Nov					
19												
20												
21												
22	Jun						Dec					
23												
24												
25												

TOTAL SUM OF ALL MONTHS (January to December) BY FUEL CODE (Quantity)

26	Total		
27	Total		
28	Total		
29	Total		

ANALYSIS METHOD FOR PRIMARY FUEL TYPE

30	Sampling Procedure	PM [ ] UM [ ] CD [ ] GC [ ] GB [ ] OT [ ]	
31	Method Of Analysis		
32	Laboratory Performing Analysis		

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SCHEDULE 4. BOILER INFORMATION, PART B. AIR EMISSION STANDARDS
(COMPLETE A SEPARATE PAGE FOR EACH BOILER)

LINE NO.				
1	Boiler ID (as reported on Schedule 2)			
2	Type Of Boiler Standards Under Which The Boiler Is Operating (use codes)	D [ ] Da [ ] Db [ ] Dc [ ] N [ ]		
	CATEGORY	PARTICULATE MATTER (a)	SULFUR DIOXIDE (b)	NITROGEN OXIDES (c)
3	Type of Statute or Regulation (use codes)	FD [ ] ST [ ] LO [ ]	FD [ ] ST [ ] LO [ ]	FD [ ] ST [ ] LO [ ]
4	Emission Standard Specified			
5	Unit of Measurement Specified (use codes)			
6	Time Period Specified (use codes)			
7	Year Boiler Was or is Expected to Be in Compliance			
8	If Not in Compliance, Strategy for Compliance (use codes)			
9	Select Existing Strategies to meet the Sulfur Dioxide Requirements of Title IV of the Clean Air Act Amendment of 1990 (use codes)			
10	Select Planned Strategies to meet the Sulfur Dioxide Requirements of Title IV of the Clean Air Act Amendment of 1990 (use codes)			

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SCHEDULE 4. BOILER INFORMATION, PART C. DESIGN PARAMETERS (COMPLETE A SEPARATE PAGE FOR EACH BOILER)

LINE NO.		
1	Boiler ID (as reported on Schedule 2)	
2	Boiler Actual or Projected In-Service Date of Commercial Operation (e.g., 12-2001)	
3	Boiler Actual or Projected Retirement Date (e.g., 12-2001)	
4	Boiler Manufacturer (use code)	
5	Type of Firing Used with Primary Fuels (use codes)	
6	Maximum Continuous Steam Flow at 100 Percent Load (thousand pounds per hour)	
7	Design Firing Rate at Maximum Continuous Steam Flow for Coal (nearest 0 .1 ton per hour)	
8	Design Firing Rate at Maximum Continuous Steam Flow for Petroleum (nearest 0 .1 barrels per hour)	
9	Design Firing Rate at Maximum Continuous Steam Flow for Gas (nearest 0 .1 thousand cubic feet per hour)	
10	Design Firing Rate at Maximum Continuous Steam Flow for Other (specify fuel and unit on Schedule 10)	
11	Design Waste Heat Input Rate at Maximum Continuous Steam Flow (million Btu per hour)	
12	Primary Fuels Used in Order of Predominance (use codes)	
13	Boiler Efficiency When Burning Primary Fuel at 100 Percent Load (nearest 0.1 percent)	
14	Boiler Efficiency When Burning Primary Fuel at 50 Percent Load (nearest 0.1 percent)	
15	Total Air Flow Including Excess Air at 100 Percent Load (cubic feet per minute at standard conditions)	
16	Wet Or Dry Bottom (for coal-capable boilers), (enter "W" for Wet or "D" for Dry)	
17	Fly Ash Re-injection (enter "Y" for Yes or "N" for No)	
~~ALTERNATE FUELS CAPABILITY (FUELS OTHER THAN PRIMARY FUEL)~~		
~~18~~	~~Alternate Fuels Boiler Is Equipped to Burn (use codes)~~	
~~19~~	~~Year Alternate Fuel Last Burned~~	
~~20~~	~~Number of Days Required to Switch~~	
~~21~~	~~Can Alternate Fuels Be Burned Continuously for 30 Days or Longer? (enter "Y" for Yes or "N" for No)~~	

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SCHEDULE 4. BOILER INFORMATION, PART D. NITROGEN OXIDE EMISSION CONTROLS (COMPLETE A SEPARATE PAGE FOR EACH BOILER)

1	Boiler ID (as reported on Schedule 2)	
2	Nitrogen Oxide Control Status (use codes)	
3	Total Hours Nitrogen Oxide Control was Inservice During the Year (nearest hour)	
NITROGEN OXIDE CONTROL EQUIPMENT AND OR PROCESS		
4	Low Nitrogen Oxide Control Process (use codes)	
5	Manufacturer of Low Nitrogen Oxide Control Burners (use code)	
ESTIMATE NITROGEN OXIDE ACTUAL EMISSION RATE (pounds/million Btu)		
6	For Entire Year	
7	May Through September Only	

SCHEDULE 4. BOILER INFORMATION, PART E. MERCURY EMISSION CONTROLS

1	Does Your Facility Have Mercury Emission Controls? (check yes or no)	Yes [ ] No [ ]	
2	If "Yes," Check all of the boxes that apply below:		

Activated carbon injection system [ ]	Baghouse [ ]	Dry scrubber [ ]	Electrostatic precipitator [ ]	Flue gas desulfurization [ ]	Lime injection [ ]	Wet scrubber [ ]	Other [ ]

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REPORTING PERIOD ENDING: 20xx

SCHEDULE 5. GENERATOR INFORMATION

LINE NO.	ITEM	GENERATOR (a)	GENERATOR (b)	GENERATOR (c)	GENERATOR (d)	GENERATOR (e)
1	Generator ID (as reported on Schedule 2)					
2	Maximum Generator Nameplate Rating (megawatts)					
ASSOCIATED CONDENSER'S COOLING WATER						
3	Design Flow Rate in Condenser at 100 Percent Load (cubic feet per second)					
4	Design Temperature Rise Across Condenser at 100 Percent Load (degrees Fahrenheit)					
MONTHLY NET ELECTRICAL GENERATION (MEGAWATTHOURS)						
5	January					
6	February					
7	March					
8	April					
9	May					
10	June					
11	July					
12	August					
13	September					
14	October					
15	November					
16	December					
17	Total					

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REPORT FOR < respondent name >, <respondent id>, <plant name>, <plant code>

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SCHEDULE 6. COOLING SYSTEM INFORMATION, PART A. ANNUAL OPERATIONS

LINE NO.	ITEM	COOLING SYSTEM (a)	COOLING SYSTEM (b)	COOLING SYSTEM (c)	COOLING SYSTEM (d)	COOLING SYSTEM (e)
1	Cooling System ID (as reported on Schedule 2)					
2	Cooling System Status (use code)					
3	Annual Amount of Chlorine Added to Cooling Water (thousand pounds)					
	AVERAGE ANNUAL RATE OF COOLING WATER (NEAREST 0.1 CUBIC FOOT PER SECOND)					
4	Withdrawal					
5	Discharge					
6	Consumption (line 4 less line 5)					
	MAXIMUM COOLING WATER TEMPERATURE AT INTAKE DURING (DEGREES FAHRENHEIT)					
7	Winter Peak Load Month					
8	Summer Peak Load Month					
	MAXIMUM COOLING WATER TEMPERATURE AT DISCHARGE OUTLET DURING (DEGREES FAHRENHEIT)					
9	Winter Peak Load Month					
10	Summer Peak Load Month					

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SCHEDULE 6. COOLING SYSTEM INFORMATION, PART B. DESIGN PARAMETERS
(COMPLETE A SEPARATE PAGE FOR EACH COOLING SYSTEM)

LINE NO.		
1	Cooling System ID (as reported on Schedule 2)	
2	Cooling System Actual or Projected Inservice Date of Commercial Operation (e.g., 12-2001)	
3	Type of Cooling System (use codes)	
4	Source of Cooling Water Including Makeup Water (name) (if discharge is into different water body, footnote in Schedule10)	
5	Design Cooling Water Flow Rate at 100 percent Load at Intake (cubic feet per second)	
6	Actual or Projected In-Service Date for Chlorine Discharge Control Structures and Equipment (month and year of commercial operation, e.g., 12-1982)	
COOLING PONDS		
7	Actual or Projected In-Service Date (month and year of commercial operation, e.g. 12-1982)	
8	Total Surface Area (acres)	
9	Total Volume (acre-feet)	
COOLING TOWERS		
10	Actual or Projected Inservice Date (month and year of commercial operation, e.g., 12-1982)	
11	Type of Towers (use codes)	
12	Maximum Design Rate of Water Flow at 100 Percent Load (cubic feet per second)	
13	Maximum Power Requirement at 100 Percent Load (megawatthours)	
INSTALLED COST OF COOLING SYSTEM EXCLUDING LAND AND CONDENSERS (thousand dollars)		
14	Total System	
15	Ponds (if applicable)	
16	Towers (if applicable)	
17	Chlorine Discharge Control Structures and Equipment (if applicable)	

COOLING WATER INTAKE AND OUTLET LOCATIONS			
	ITEM	INTAKE (a)	OUTLET (b)
18	Maximum Distance from Shore (feet)		
19	Average Distance below Water Surface (feet)		
20	Latitude (degrees, minutes, seconds)		
21	Longitude (degrees, minutes, seconds)		
22	Enter Datum for Latitude and Longitude, if Known; Otherwise Enter "NA"		

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SCHEDULE 7. FLUE GAS PARTICULATE COLLECTOR INFORMATION
(COMPLETE A SEPARATE PAGE FOR EACH FLUE GAS PARTICULATE COLLECTOR)

LINE NO.		
1	Flue Gas Particulate Collector ID (as reported on Schedule 2)	
2	Flue Gas Particulate Collector Actual or Projected In-Service Date of Commercial Operation (e.g., 12-2001)	
3	Flue Gas Particulate Collector Status (use code)	
4	Type of Flue Gas Particulate Collector (use codes)	
5	Installed Cost of Flue Gas Particulate Collector Excluding Land (thousand dollars)	
6	Hours In-Service During Year (to nearest hour)	
7	Typical Particulate Emission Rate at Annual Operating Rate (to nearest 0.01 pound per million Btu)	
ESTIMATE REMOVAL EFFICIENCY OF PARTICULATE MATTER (TO NEAREST 0.1 PERCENT REMOVED BY WEIGHT)		
8	At Annual Operating Factor	
9	At 100 Percent Load or Tested Efficiency (if test conducted was not at 100 percent load, footnote load on Schedule 10)	
10	Date of Most Recent Efficiency Test (e.g., 12-2001)	
DESIGN FUEL SPECIFICATIONS FOR ASH (AS BURNED, TO NEAREST 0.1 PERCENT BY WEIGHT)		
11	For Coal	
12	For Petroleum	
DESIGN FUEL SPECIFICATIONS FOR SULFUR (AS BURNED, TO NEAREST 0.1 PERCENT BY WEIGHT)		
13	For Coal	
14	For Petroleum	
DESIGN SPECIFICATIONS AT 100 PERCENT GENERATOR LOAD		
15	Collection Efficiency (to nearest 0.1 percent)	
16	Particulate Emission Rate (pounds per hour)	
17	Particulate Collector Gas Exit Rate (actual cubic feet per minute)	
18	Particulate Collector Gas Exit Temperature (degrees Fahrenheit)	

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SCHEDULE 8. FLUE GAS DESULFURIZATION UNIT INFORMATION, PART A. ANNUAL OPERATIONS

LINE NO.	ITEM	FLUE GAS DESULFURIZATION (a)	FLUE GAS DESULFURIZATION (b)	FLUE GAS DESULFURIZATION (c)	FLUE GAS DESULFURIZATION (d)	FLUE GAS DESULFURIZATION (e)
1	Flue Gas Desulfurization ID (as reported on Schedule 2, line 6)					
2	Flue Gas Desulfurization Unit Status (use code)					
3	Hours In-Service During Year (to nearest hour)					
4	Quantity of FGD Sorbent Used During Year (to nearest 0.1 thousand tons)					
5	Electrical Energy Consumption During Year (megwatthours)					
ESTIMATED REMOVAL EFFICIENCY FOR SULFUR DIOXIDE (TO NEAREST 0.1 PERCENT REMOVED BY WEIGHT)						
6	At Annual Operating Factor					
7	At 100 percent Load or Tested Efficiency (if test conducted was not at 100 percent, footnote load on Schedule 10)					
8	Date of Most Recent Efficiency Test (i.e., 12-2001)					
FLUE GAS DESULFURIZATION OPERATION AND MAINTENANCE EXPENDITURES DURING YEAR, EXCLUDING ELECTRICITY (THOUSAND DOLLARS)						
9	Feed Materials and Chemicals					
10	Labor and Supervision					
11	Waste Disposal					
12	Maintenance, Materials and All Other Costs					
13	Total (sum of lines 9, 10, 11, 12)					

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SCHEDULE 8. FLUE GAS DESULFURIZATION UNIT INFORMATION, PART B. DESIGN PARAMETERS
(COMPLETE A SEPARATE PAGE FOR EACH FLUE GAS DESULFURIZATION UNIT)

LINE NO.		
1	Flue Gas Desulfurization Unit ID (as reported on Schedule 2)	
2	Flue Gas Desulfurization Unit Actual or Projected Inservice Date of Commercial Operation (e.g., 12-2001)	
3	Type of Flue Gas Desulfurization Unit (use code)	
4	Type of Sorbent (use code)	
5	Salable Byproduct Recovery (enter "Y" for Yes or "N" for No)	
6	Flue Gas Desulfurization Unit Manufacturer (use code)	
7	Estimated Flue Gas Desulfurization Waste and Salable Byproducts Produced Annually (thousand tons at zero percent moisture)	
8	Annual Pond and Land Fill Requirements (nearest acre foot per year)	
9	Is Sludge Pond Lined (enter "Y" for Yes, "N" for No, or "NA" for Not Applicable)	
10	Can Flue Gas Bypass Flue Gas Desulfurization Unit (enter "Y" for Yes or "N" for No)	
DESIGN FUEL SPECIFICATIONS FOR COAL		
11	Ash (to nearest 0.1 percent by weight)	
12	Sulfur (to nearest 0.1 percent by weight)	
NUMBER OF FLUE GAS DESULFURIZATION UNIT SCRUBBER TRAINS (OR MODULES)		
13	Total	
14	Operated at 100 Percent Load	
DESIGN SPECIFICATIONS OF FLUE GAS DESULFURIZATION UNIT AT 100 PERCENT GENERATOR LOAD		
15	Removal Efficiency for Sulfur Dioxide (to nearest 0.1 percent by weight)	
16	Sulfur Dioxide Emission Rate (pounds per hour)	
17	Flue Gas Exit Rate (actual cubic feet per minute)	
18	Flue Gas Exit Temperature (degrees Fahrenheit)	
19	Flue Gas Entering Flue Gas Desulfurization Unit (percent of total)	
INSTALLED COST OF FLUE GAS DESULFURIZATION UNIT, EXCLUDING LAND (THOUSAND DOLLARS)		
20	Structures and Equipment	
21	Sludge Transport and Disposal System	
22	Other (installed cost of flue gas desulfurization unit)	
23	Total (sum of lines 20, 21, 22)	

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SCHEDULE 9. STACK AND FLUE INFORMATION - DESIGN PARAMETERS
(COMPLETE A SEPARATE PAGE FOR EACH STACK AND FLUE)

LINE NO.		
1	Flue ID (as reported on Schedule 2)	
2	Stack ID (as reported on Schedule 2)	
3	Stack (or Flue) Actual or Projected In-Service Date of Commercial Operation (e.g., 12-2001)	
4	Status of Stack (or Flue) (use code)	
5	Flue Height at Top from Ground Level (feet)	
6	Cross-Sectional Area at Top of Flue (nearest square foot)	
DESIGN FLUE GAS EXIT (AT TOP OF STACK)		
7	Rate at 100 Percent Load (actual cubic feet per minute)	
8	Rate at 50 Percent Load (actual cubic feet per minute)	
9	Temperature at 100 Percent Load (degrees Fahrenheit)	
10	Temperature at 50 Percent Load (degrees Fahrenheit)	
11	Velocity at 100 Percent Load (feet per second)	
12	Velocity at 50 Percent Load (feet per second)	
ACTUAL SEASONAL FLUE GAS EXIT TEMPERATURE (DEGREES FAHRENHEIT)		
13	Summer Season	
14	Winter Season	
15	Source (enter "M" for measured or "E" for estimated)	
STACK LOCATION		
16	Stack Location - Latitude (degrees, minutes, seconds)	
17	Stack Location - Longitude (degrees, minutes, seconds)	
18	Enter Datum for Latitude and Longitude, if Known; Otherwise Enter "NA"	

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REPORTING PERIOD: 20xx

SCHEDULE 10. FOOTNOTES

SCHEDULE NO. (a)	PART NO. (b)	EQUIPMENT ID (c)	LINE NO. (d)	COLUMN (e)	NOTE (f)